Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1-42. (Canceled)

43. (Currently Amended) A liquid crystal display device comprising:

a first substrate and a second substrate opposed to the first substrate;

a thin film transistor formed over the first substrate; and

a liquid crystal interposed between the first substrate and the second substrate,

wherein ~~the liquid crystal is driven by applying~~ an electric field applied substantially in parallel with a surface of the first substrate controls whether a light passes through the liquid crystal display device or not, and

wherein a transparent conductive material is formed over the second substrate.

44. (Original) A liquid crystal display device according to claim 43 wherein the first and the second substrates comprise a glass or a quartz substrate.

45. (Original) A liquid crystal display device according to claim 43 wherein the thin film transistor comprises an amorphous silicon.

46. (Original) A liquid crystal display device according to claim 43 wherein the transparent conductive material functions as an electrode.

47. (Currently Amended) A liquid crystal display device comprising:

a first substrate and a second substrate opposed to the first substrate;

a thin film transistor formed over the first substrate; and

a liquid crystal interposed between the first substrate and the second substrate,

wherein ~~the liquid crystal is driven by applying~~ an electric field applied substantially in parallel with a surface of the first substrate controls whether a light passes through the liquid crystal display device or not, and

wherein a transparent conductive material is formed over an entire surface of the second substrate.

48. (Original) A liquid crystal display device according to claim 47 wherein the first and the second substrates comprise a glass or a quartz substrate.

49. (Original) A liquid crystal display device according to claim 47 wherein the thin film transistor comprises an amorphous silicon.

50. (Original) A liquid crystal display device according to claim 47 wherein the transparent conductive material functions as an electrode.

51. (Currently Amended) A liquid crystal display device comprising:

a first substrate and a second substrate opposed to the first substrate;

a thin film transistor formed over the first substrate; and

a liquid crystal interposed between the first substrate and the second substrate,

wherein ~~the liquid crystal is driven by applying~~ an electric field applied substantially in parallel with a surface of the first substrate controls whether a light passes through the liquid crystal display device or not, and

wherein a transparent conductive material comprising ITO is formed over the second substrate.

52. (Original) A liquid crystal display device according to claim 51 wherein the first and the second substrates comprise a glass or a quartz substrate.

53. (Original) A liquid crystal display device according to claim 51 wherein the thin film transistor comprises an amorphous silicon.

54. (Original) A liquid crystal display device according to claim 51 wherein the transparent conductive material functions as an electrode.

55. (Currently Amended) A liquid crystal display device comprising:

a first substrate and a second substrate opposed to the first substrate;

a thin film transistor formed over the first substrate; and

a liquid crystal interposed between the first substrate and the second substrate,

wherein ~~the liquid crystal is driven by applying~~ an electric field applied substantially in parallel with a surface of the first substrate controls whether a light passes through the liquid crystal display device or not, and

wherein a transparent conductive material comprising ITO is formed over an entire surface of the second substrate.

56. (Original) A liquid crystal display device according to claim 55 wherein the first and the second substrates comprise a glass or a quartz substrate.

57. (Original) A liquid crystal display device according to claim 55 wherein the thin film transistor comprises an amorphous silicon.

58. (Original) A liquid crystal display device according to claim 55 wherein the transparent conductive material functions as an electrode.

59. (Currently Amended) A liquid crystal display device comprising:

a first substrate and a second substrate opposed to the first substrate;

a thin film transistor formed over the first substrate; and

a liquid crystal interposed between the first substrate and the second substrate,

wherein ~~the liquid crystal is driven by applying~~ an electric field applied substantially in parallel with a surface of the first substrate controls whether a light passes through the liquid crystal display device or not,

wherein a transparent conductive material is formed over the second substrate, and

wherein a black matrix comprising a resin material is formed adjacent to the second substrate.

60. (Previously Presented) A liquid crystal display device according to claim 59 wherein the first and the second substrates comprise a glass or a quartz substrate.

61. (Previously Presented) A liquid crystal display device according to claim 59 wherein the thin film transistor comprises an amorphous silicon.

62. (Previously Presented) A liquid crystal display device according to claim 59 wherein the transparent conductive material functions as an electrode.

63. (Previously Presented) A liquid crystal display device according to claim 59 wherein the black matrix contains a black pigment.

64. (Currently Amended) A liquid crystal display device comprising:

a first substrate and a second substrate opposed to the first substrate;

a thin film transistor formed over the first substrate; and

a liquid crystal interposed between the first substrate and the second substrate,

wherein ~~the liquid crystal is driven by applying~~ an electric field applied substantially in parallel with a surface of the first substrate controls whether a light passes through the liquid crystal display device or not,

wherein a transparent conductive material is formed over an entire surface of the second substrate, and

wherein a black matrix comprising a resin material is formed adjacent to the second substrate.

65. (Previously Presented) A liquid crystal display device according to claim 64 wherein the first and the second substrates comprise a glass or a quartz substrate.

66. (Previously Presented) A liquid crystal display device according to claim 64 wherein the thin film transistor comprises an amorphous silicon.

67. (Previously Presented) A liquid crystal display device according to claim 64 wherein the transparent conductive material functions as an electrode.

68. (Previously Presented) A liquid crystal display device according to claim 64 wherein the black matrix contains a black pigment.

69. (Currently Amended) A liquid crystal display device comprising:

a first substrate and a second substrate opposed to the first substrate;

a thin film transistor formed over the first substrate; and

a liquid crystal interposed between the first substrate and the second substrate,

wherein ~~the liquid crystal is driven by applying~~ an electric field applied substantially in parallel with a surface of the first substrate controls whether a light passes through the liquid crystal display device or not,

wherein a transparent conductive material comprising ITO is formed over the second substrate, and

wherein a black matrix comprising a resin material is formed adjacent to the second substrate.

70. (Previously Presented) A liquid crystal display device according to claim 69 wherein the first and the second substrates comprise a glass or a quartz substrate.

71. (Previously Presented) A liquid crystal display device according to claim 69 wherein the thin film transistor comprises an amorphous silicon.

72. (Previously Presented) A liquid crystal display device according to claim 69 wherein the transparent conductive material functions as an electrode.

73. (Previously Presented) A liquid crystal display device according to claim 69 wherein the black matrix contains a black pigment.

74. (Currently Amended) A liquid crystal display device comprising:

a first substrate and a second substrate opposed to the first substrate;

a thin film transistor formed over the first substrate; and

a liquid crystal interposed between the first substrate and the second substrate,

wherein ~~the liquid crystal is driven by applying~~ an electric field applied substantially in parallel with a surface of the first substrate controls whether a light passes through the liquid crystal display device or not,

wherein a transparent conductive material comprising ITO is formed over an entire surface of the second substrate, and

wherein a black matrix comprising a resin material is formed adjacent to the second substrate.

75. (Previously Presented) A liquid crystal display device according to claim 74 wherein the first and the second substrates comprise a glass or a quartz substrate.

76. (Previously Presented) A liquid crystal display device according to claim 74 wherein the thin film transistor comprises an amorphous silicon.

77. (Previously Presented) A liquid crystal display device according to claim 74 wherein the transparent conductive material functions as an electrode.

78. (Previously Presented) A liquid crystal display device according to claim 74 wherein the black matrix contains a black pigment.

79. (New) A liquid crystal display device comprising:

a thin film transistor over a substrate, wherein the thin film transistor includes at least a gate electrode, a semiconductor film adjacent to the gate electrode, and an electrode electrically connected to the semiconductor film;

a common electrode over the substrate;

a liquid crystal over the thin film transistor and the common electrode; and

a transparent conductive material over the liquid crystal, wherein the liquid crystal is located between the substrate and the transparent conductive material, and

wherein an electric field applied by the electrode and the common electrode controls whether a light passes through the liquid crystal display device or not.

80. (New) A liquid crystal display device according to claim 79 wherein the substrate comprises a glass or a quartz substrate.

81. (New) A liquid crystal display device according to claim 79 wherein the transparent conductive material functions as an electrode.

82. (New) A liquid crystal display device according to claim 79 wherein the gate electrode and the common electrode are formed on a same surface.

83. (New) A liquid crystal display device comprising:

a thin film transistor over a substrate, wherein the thin film transistor includes at least a gate electrode, a semiconductor film adjacent to the gate electrode, and an electrode electrically connected to the semiconductor film;

a common electrode over the substrate;

a liquid crystal over the thin film transistor and the common electrode; and

a transparent conductive material comprising ITO over the liquid crystal, wherein the liquid crystal is located between the substrate and the transparent conductive material, and

wherein an electric field applied by the electrode and the common electrode controls whether a light passes through the liquid crystal display device or not.

84. (New) A liquid crystal display device according to claim 83 wherein the substrate comprises a glass or a quartz substrate.

85. (New) A liquid crystal display device according to claim 83 wherein the transparent conductive material functions as an electrode.

86. (New) A liquid crystal display device according to claim 83 wherein the gate electrode and the common electrode are formed on a same surface.

87. (New) A liquid crystal display device comprising:

a thin film transistor over a substrate, wherein the thin film transistor includes at least a gate electrode, a semiconductor film over the gate electrode, and an electrode electrically connected to the semiconductor film;

a common electrode over the substrate;

a liquid crystal over the thin film transistor and the common electrode; and

a transparent conductive material over the liquid crystal, wherein the liquid crystal is located between the substrate and the transparent conductive material, and

wherein an electric field applied by the electrode and the common electrode controls whether a light passes through the liquid crystal display device or not.

88. (New) A liquid crystal display device according to claim 87 wherein the substrate comprises a glass or a quartz substrate.

89. (New) A liquid crystal display device according to claim 87 wherein the transparent conductive material functions as an electrode.

90. (New) A liquid crystal display device according to claim 87 wherein the gate electrode and the common electrode are formed on a same surface.

91. (New) A liquid crystal display device comprising:

a thin film transistor over a substrate, wherein the thin film transistor includes at least a gate electrode, a semiconductor film over the gate electrode, and an electrode electrically connected to the semiconductor film;

a common electrode over the substrate;

a liquid crystal over the thin film transistor and the common electrode; and

a transparent conductive material comprising ITO over the liquid crystal, wherein the liquid crystal is located between the substrate and the transparent conductive material, and

wherein an electric field applied by the electrode and the common electrode controls whether a light passes through the liquid crystal display device or not.

92. (New) A liquid crystal display device according to claim 91 wherein the substrate comprises a glass or a quartz substrate.

93. (New) A liquid crystal display device according to claim 91 wherein the transparent conductive material functions as an electrode.

94. (New) A liquid crystal display device according to claim 91 wherein the gate electrode and the common electrode are formed on a same surface.

95. (New) A liquid crystal display device comprising:

a thin film transistor over a substrate, wherein the thin film transistor includes at least a gate electrode, an amorphous semiconductor film adjacent to the gate electrode, and an electrode electrically connected to the amorphous semiconductor film;

a common electrode over the substrate;

a liquid crystal over the thin film transistor and the common electrode; and

a transparent conductive material over the liquid crystal, wherein the liquid crystal is located between the substrate and the transparent conductive material, and

wherein an electric field applied by the electrode and the common electrode controls whether a light passes through the liquid crystal display device or not.

96. (New) A liquid crystal display device according to claim 95 wherein the substrate comprises a glass or a quartz substrate.

97. (New) A liquid crystal display device according to claim 95 wherein the transparent conductive material functions as an electrode.

98. (New) A liquid crystal display device according to claim 95 wherein the gate electrode and the common electrode are formed on a same surface.

99. (New) A liquid crystal display device comprising:

a thin film transistor over a substrate, wherein the thin film transistor includes at least a gate electrode, an amorphous semiconductor film adjacent to the gate electrode, and an electrode electrically connected to the amorphous semiconductor film;

a common electrode over the substrate;

a liquid crystal over the thin film transistor and the common electrode; and

a transparent conductive material comprising ITO over the liquid crystal, wherein the liquid crystal is located between the substrate and the transparent conductive material, and

wherein an electric field applied by the electrode and the common electrode controls whether a light passes through the liquid crystal display device or not.

100. (New) A liquid crystal display device according to claim 99 wherein the substrate comprises a glass or a quartz substrate.

101. (New) A liquid crystal display device according to claim 99 wherein the transparent conductive material functions as an electrode.

102. (New) A liquid crystal display device according to claim 99 wherein the gate electrode and the common electrode are formed on a same surface.